CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.02/KRIDL/CSR-01/238a/CEMENT/2016-17 Date: 07.01.2017

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Improvements of Roads and Drains at Kondappa Layout western side cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/102/2016-17 Dated: 05.01.2017
* Sample ID	:	Cement – Sample 1
Sample Received on	:	05.01.2017
Period of Testing	:	05.01.2017 to 07.01.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	165 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	470 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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AE

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Job No.: CTCE/BBMP/W.No.02/KRIDL/CSR-01/238a/SAND-Gradation/2016-17 07.01.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	: Improvements of Roads and Drains at Kondappa Layout western side cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/102/2016-17 Dated: 05.01.2017
* Sample ID	: Fine Aggregates
Technical Reference	: IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	: 05.01.2017
Date of Testing	: 07.01.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.80	90-100	90-100	90-100	95-100
2.36	81.20	60-95	75-100	85-100	95-100
1.18	52.20	30-70	55-90	75-100	90-100
600 Micron	27.20	15-34	35-59	60-79	80-100
300 Micron	15.20	5-20	8-30	12-40	15-50
150 Micron	5.30	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.02/KRIDL/CSR-01/238a/AGG/GR/2016-17 07.01.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Improvements of Roads and Drains at Kondappa Layout western side cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/102/2016-17 Dated: 05.01.2017
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2016)
Sample Received on	:	05.01.2017
Date of Testing	:	07.01.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2016)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.84	95-100	85-100
20	32.84	30-70	0-20
10	15.34	10-35	0-5
4.75	3.24	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/W.No.02/KRIDL/Steel/2016-17 07.01.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of work	:	Improvements of Roads and Drains at Kondappa Layout western side cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/102/2016-17 Dated: 05.01.2017
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	07.01.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	511	513	13.1	O.K	O.K

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Job No.: CTCE/BBMP/W.No.02/KRIDL/CSR-01/238a/Cube/2016-17 17.01.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	: Improvements of Roads and Drains at Kondappa Layout western side cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/102/2016-17 Dated: 05.01.2017
* Sample ID	: Cement Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{15}
Compressive Strength as on	: 7^{th} day
Sample Received on	: 17.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.01.2017	17.01.2017	8.165	265.6	11.80
2	10.01.2017	17.01.2017	8.235	279.3	12.41
3	10.01.2017	17.01.2017	8.305	283.6	12.60

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Job No.: CTCE/BBMP/W.No.02/KRIDL/CSR-01/238a/Cube/2016-17 24.01.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	: Improvements of Roads and Drains at Kondappa Layout western side cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/102/2016-17 Dated: 05.01.2017
* Sample ID	: Covering Slab Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{15}
Compressive Strength as on	: 7^{th} day
Sample Received on	: 24.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.01.2017	24.01.2017	8.133	258.9	11.51
2	17.01.2017	24.01.2017	8.235	261.7	11.63
3	17.01.2017	24.01.2017	8.305	280.3	12.46

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Civil-Tech Consultants & Engineers (Bangalore)

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Job No.: CTCE/BBMP/W.No.02/KRIDL/CSR-01/238a/Cube/2016-17 23.01.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	:	Improvements of Roads and Drains at Kondappa Layout western side cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	:	BBMP/EE(YNK.D)/W.O/102/2016-17 Dated: 05.01.2017
* Sample ID	:	Drain Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	23.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.01.2017	23.01.2017	8.178	329.6	14.65
2	16.01.2017	23.01.2017	8.293	346.3	15.39
3	16.01.2017	23.01.2017	8.325	356.6	15.85

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* Reference	: BBMP/EE(YNK.D)/W.O/102/2016-17 Dated: 05.01.2017
* Sample ID	: Drain Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{30}
Compressive Strength as on	: 7^{th} day
Sample Received on	: 23.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.01.2017	23.01.2017	8.205	356.6	15.85
2	16.01.2017	23.01.2017	8.317	369.6	16.43
3	16.01.2017	23.01.2017	8.406	379.6	16.87

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* Reference	: BBMP/EE(YNK.D)/W.O/102/2016-17 Dated: 05.01.2017
* Sample ID	: Drain Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 7^{th} day
Sample Received on	: 23.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.01.2017	23.01.2017	8.097	336.6	14.96
2	16.01.2017	23.01.2017	8.126	354.6	15.76
3	16.01.2017	23.01.2017	8.207	362.5	16.11

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Job No.: CTCE/BBMP/W.No.02/KRIDL/CSR-01/238a/Cube/2016-17 25.01.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	: Improvements of Roads and Drains at Kondappa Layout western side cross roads in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
* Reference	: BBMP/EE(YNK.D)/W.O/102/2016-17 Dated: 05.01.2017
* Sample ID	: Pavement Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 7^{th} day
Sample Received on	: 25.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.01.2017	25.01.2017	8.190	320.8	14.26
2	18.01.2017	25.01.2017	8.238	322.8	14.35
3	18.01.2017	25.01.2017	8.314	349.6	15.54

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Reference	: BBMP/EE(YNK.D)/W.O/102/2016-17 Dated: 05.01.2017
* Sample ID	: Pavement Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{20}
Compressive Strength as on	: 7^{th} day
Sample Received on	: 25.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.01.2017	25.01.2017	8.125	336.6	14.96
2	18.01.2017	25.01.2017	8.276	354.8	15.77
3	18.01.2017	25.01.2017	8.393	355.8	15.81

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Job No.: CTCE/BBMP/W.No.02/KRIDL/CSR-01/238a/Cube/2016-17 25.01.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
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* Reference	: BBMP/EE(YNK.D)/W.O/102/2016-17 Dated: 05.01.2017
* Sample ID	: Pavement Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{30}
Compressive Strength as on	: 7^{th} day
Sample Received on	: 25.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.01.2017	25.01.2017	8.175	343.5	15.27
2	18.01.2017	25.01.2017	8.290	350.5	15.58
3	18.01.2017	25.01.2017	8.378	367.8	16.35

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Job No.: CTCE/BBMP/W.No.02/KRIDL/CSR-01/238a/Cube/2016-17

25.01.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
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* Reference	: BBMP/EE(YNK.D)/W.O/102/2016-17 Dated: 05.01.2017
* Sample ID	: Pavement Concrete
Technical Reference	: IS: 516-1959 (RA-2013)
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
* Grade of Concrete	: M_{30}
Compressive Strength as on	: 7^{th} day
Sample Received on	: 25.01.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.01.2017	25.01.2017	8.257	330.5	14.69
2	18.01.2017	25.01.2017	8.329	347.9	15.46
3	18.01.2017	25.01.2017	8.403	358.8	15.95

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*Information is furnished by the Customer/Representative.

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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